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**Claims:**

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1. Use of Factor XIII for the manufacture of a preparation, which is suitable for the stimulation of the perfusion of ischemic tissues.
- 15 2. Use of FXIII for the manufacture of a preparation, which is suitable for the stimulation of the perfusion of ischemic tissues by the proliferation of new blood vessels.
- 20 3. Use of FXIII as claimed in claim 1 or claim 2, wherein the FXIII is activated in vitro or in vivo.
4. Use of Factor XIII for the manufacture of an injectible preparation as claimed in claim 1, 2 or 3.
- 25 5. Use of Factor XIII for the manufacture of a preparation as claimed in claim 1, 2, 3 or 4 which is suitable for the treatment of a myocardial infarction.
- 30 6. Use of Factor XIII for the manufacture of a preparation as claimed in claim 1, 2, 3 or 4, which is suitable for the treatment of an ischemic stroke or transient ischemic attack.
- 35 7. Use of FXIII for the manufacture of a preparation as claimed in claim 1, 2, 3 or 4, which is suitable for treatment of vascular or veno-occlusive diseases or obstructions of the microcirculation.

- 5    8.    Use of FXIII for the manufacture of a preparation according to claims 1, 2 or 3 which is for topical application.